CASE STUDY

DATAHUB, BIEL:
EQUIPPED FOR THE FUTURE

Flexible and expandable modular cabling solutions from Datwyler give DataHub the security and reliability needed by the Swiss data centre operator.

Between September 2016 and March 2018 DC-ONE AG, on behalf of Data Centre Biel AG, part of the DataHub Group, set up one of Switzerland's most modern and future-proof data centres on a greenfield site in Biel. It has an effective data centre area of 3,000 square metres as well as 1,800 metres of office space. At a PUE value of less than 1.25 the energy efficiency of the data centre is extremely high. It was built to meet the TIER III standard, even TIER IV in some areas. DataHub operates it in compliance with ISO 27001 and ISO 50001, the relevant standards for information security and energy management respectively.

For the initial development of the data centre the DataHub Group decided on a "Datwyler Datacenter Solution" (DCS). This enables the company to draw on a wide range of pre-assembled cables and components.

Modular solution

"As a dynamic start-up company the choice of high-quality products was very important," explained Adrian Roth, CEO of the DataHub Group "The values represented by Datwyler are consistent with ours. With the DCS System we chose a solution which allows the maximum packing densities and is available at short notice. It is neat and easy to install, and guarantees the compatibility we want. It also provides the modularity for future upgrades. The cabling will grow in line with customer requirements."

In the initial development around 50 19-inch panels were installed with 1RU and 3/4RU (rack units) asssembled with 130 LC plug-in modules and 310 copper cassettes. Fibre optic breakout cables and Cat.7 trunk cables were used to establish the carrier networks and link up the racks of DataHub customers. In addition Datwyler supplied numerous patch cables.

The structured premises cabling was also fully assembled with products from the Altdorf solution provider. It is used not only for data transfer and telephony, but also to operate the entire building management system and data centre infrastructure management (DCIM).

Know-how and innovation

"There are a lot of products on the market. We opted for Datwyler because we have always been able to count on Datwyler's support in other projects. It is very important for us to have a dependable partner in whose products, know-how and innovations we can always have confidence," explained the DataHub CEO.

In the initial stage Datwyler was operating as general contractor on behalf of DC-ONE. This meant that Datwyler's project manager had full control over the quality of the installation and was able to ensure that all the customer's requirements – including the deadlines – were met. Prior measurement of the trunk cables supplied also ensured that commissioning was trouble-free.

"In Datwyler we have by our side an extremely capable partner who always responds to our wishes. The flexible and expandable modular solutions give us the security and dependability which we as data centre operators need to equip us for the future and future changes," said a pleased Attila Kovacs, Head of Data Centre at DataHub.

Added value for customers

"The original development plans were optimised after the contract was awarded, the lines were consolidated and supplemented by compact modular cable systems," continued Kovacs. "This generates added value for us and gives our customers greater flexibility and potential for upgrades in their racks."

Since commissioning DataHub has continued to implement customer upgrades with the Datwyler products used. "The excellent workmanship simplifies our day-to-day job and gives us the security we need to guarantee our customers an environment which is 100 percent secure," added CEO Adrian Roth.

The cabling infrastructure of the data centre not only meets today's requirements, but is also equipped for future technologies, especially in terms of higher data transfer rates and flexibility. That is how one of Switzerland's most modern and future-proof data centres – including the IT infrastructure – was created in Biel.